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27

CLAIMS

- A drive mechanism for use in a drug delivery device comprising:
 a housing having an internal and an external thread;
 a piston rod having a non-circular cross section, and which is threadedly engaged with the internal thread of the housing;
 a unidirectional coupling located between the housing and the piston rod;
 a dose dial sleeve, which is threadedly engaged with the external thread of the housing and being rotatable with respect to the housing;
 a drive sleeve, located between the housing and the piston rod, which is axially displaceable but not rotatable with respect to the piston rod; and
 a clutch means located between the drive sleeve and the dose dial sleeve, which
 - a) when the dose dial sleeve and the drive sleeve are de-coupled by the said clutch means, rotation of said dose dial sleeve with respect to the said drive sleeve is allowed; and
 - b) when the dose dial sleeve and drive sleeve are coupled by the said clutch means, rotation of the dose dial sleeve with respect to the said drive sleeve is prevented.
- 2 An assembly for use in a drug delivery device comprising the drive mechanism as defined in claim 1.
- A drug delivery device comprising the drive mechanism as defined in claim 1 or the assembly of claim 2.
- The drug delivery device according to claim 3, which is a pen-type device.
- 5 The drug delivery device according to any of claim 3 to 4, which is an injector-type device.
- The drug delivery device according to any of claim 3 to 5, which comprises a needle.

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28

- 7 The drug delivery device according to any of claim 3 to 5, which is a needle-free device.
- The use of a drug delivery device as defined in any of claims 3 to 7 for dispensing a medicinal product.
- 9 The use of a drug delivery device according to claim 8 for dispensing a pharmaceutical formulation comprising an active compound selected from the group consisting of insulin, growth hormone, low molecular weight heparin, their analogues, and their derivatives.
- 10 The method of manufacturing or assembling a drug delivery device, comprising the step of providing a drive mechanism as defined in claim 1 or an assembly as defined in claim 2.